

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference X-16606	FOR FURTHER ACTION see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/US2005/010205	International filing date (day/month/year) 25/03/2005	(Earliest) Priority Date (day/month/year) 30/03/2004
Applicant ELI LILLY AND COMPANY		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 4 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. ☐ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. ☐ **Certain claims were found unsearchable.** (See Box II).

3. ☐ **Unity of invention is lacking** (see Box III).

4. With regard to the **title**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

☐ the text is approved as submitted by the applicant.

☒ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the **drawings**,

- a. the figure of the **drawings** to be published with the abstract is Figure No. 5

☒ as suggested by the applicant.

☐ as selected by this Authority, because the applicant failed to suggest a figure.

☐ as selected by this Authority, because this figure better characterizes the invention.

- b. ☐ none of the figures is to be published with the abstract.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US2005/010205

Box No. IV Text of the abstract (Continuation of item 5 of the first sheet)

A medication dispensing apparatus having a gear set (62) to provide a mechanical advantage to the plunging of the apparatus plunger (64). The gear set has a first pinion (114) in meshed engagement with a rack (91) of the plunger, and a second pinion (126) in meshed engagement with a rack (80) of a drive member (68) of the apparatus. The gear set operatively interconnects the plunger and the drive member such that after the plunger is moved relative to the housing (30, 31) in a proximal direction to prepare the apparatus for injection, the plunger, when distally moved, causes the drive member to advance in a distal direction to force medication through an outlet, typically provided with an injection needle (40), at the distal end (22) of the apparatus.

An opening (130) through one of the pinions accommodates the drive member to allow for a compact apparatus.

INTERNATIONAL SEARCH REPORT

International Application No
PCT/US2005/010205

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 A61M5/315

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 A61M

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
A	✓ WO 03/080160 A (ELI LILLY AND COMPANY; JUDSON, JARED, ALDEN; STEWART, WILLIAM, CHARLES) 2 October 2003 (2003-10-02) cited in the application the whole document	1-17
A	✓ US 6 003 736 A (LJUNGGREN ET AL) 21 December 1999 (1999-12-21) abstract; figure 1	1-17
A	✓ WO 02/076535 A (DCA DESIGN INTERNATIONAL LIMITED; LANGLEY, CHRISTOPHER, NIGEL; PLUMPTRE) 3 October 2002 (2002-10-03) the whole document	1-17
A	✓ GB 27377 A A.D. 1913 (JULES CURNAND) 27 November 1914 (1914-11-27) figure 1	1-17



Further documents are listed in the continuation of box C



Patent family members are listed in annex

* Special categories of cited documents

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance, the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance, the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- *&* document member of the same patent family

Date of the actual completion of the international search

18 July 2005

Date of mailing of the international search report

27/07/2005

Name and mailing address of the ISA

European Patent Office, P B 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel (+31-70) 340-2040. Tx 31 651 epo nl.
Fax (+31-70) 340-3016

Authorized officer

Ceccarelli, D

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US2005/010205

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 03080160	A	02-10-2003	AU 2003216521 A1 EP 1487520 A1 WO 03080160 A1	08-10-2003 22-12-2004 02-10-2003
US 6003736	A	21-12-1999	AT 256480 T AU 733472 B2 AU 7757498 A BR 9809984 A CA 2291341 A1 CN 1259057 A DE 69820621 D1 DE 69820621 T2 WO 9856439 A1 EP 0988075 A1 JP 2002503122 T NO 996025 A PL 337219 A1 HU 0002581 A2	15-01-2004 17-05-2001 30-12-1998 01-08-2000 17-12-1998 05-07-2000 29-01-2004 23-09-2004 17-12-1998 29-03-2000 29-01-2002 08-02-2000 14-08-2000 28-11-2000
WO 02076535	A	03-10-2002	CA 2439896 A1 EP 1372768 A1 WO 02076535 A1 JP 2004533869 T MX PA03008686 A US 2004087904 A1	03-10-2002 02-01-2004 03-10-2002 11-11-2004 20-04-2004 06-05-2004
GB 191327377	A	27-11-1914	NONE	